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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,426	04/16/2004	Han Sang Lee	8733.1033.00-US	9939
30827	7590	03/26/2008	EXAMINER	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			TSEGAYE, DANIEL	
		ART UNIT	PAPER NUMBER	
		2629		
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		03/26/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/825,426	LEE ET AL.	
	Examiner	Art Unit	
	DANIEL TSEGAYE	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 11 February 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-7 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-7 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 16 April 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Response to Amendment

The amendment filed on 02/11/2008 has been considered by examiner.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Komiya (U.S Pub #2002/0158587).

As to claim 1, Komiya (Fig. 5) disclose an electro-luminescence (EL) display, include: a plurality of drive voltage supply lines (e.g., plurality power lines connected to each of pixel in vertical direction from power source PVDD);

a plurality of compensation voltage supply lines (e.g., lines connect to VEE); EL cells (EL) at each crossing of a plurality of data lines and a plurality of gate lines in a matrix (see Fig. 5), wherein the EL cells emit light in response to currents applied from the drive voltage supply lines (e.g., when TFT2 is on, an electrical current flows from source PVDD into EL; see [0034]).

driving thin film transistors (TFT2) connected between the EL cells and compensation voltage supply lines that control the current applied to the EL cells; and

a bias switch (e.g., TFT3), connected between the N-1th compensation voltage supply line (e.g., second VEE line) and a control terminal of the driving TFT (e.g., TFT2) connected to the Nth compensation voltage (e.g., VEE line of second row), that applies a bias voltage to the driving TFT (e.g., TFT2) when a scan pulse is supplied to the N-1th gate line (e.g., gate line 1, see Fig. 5).

As to claim 2, Komiya teaches a switching thin film transistor (TFT1), connected to the gate line (e.g., Discharge gate line 2), the data line (e.g., data line 1) and the control terminal of the driving TFT (e.g., TFT4); and

a storage capacitor connected between the compensation voltage supply line (e.g., VEE line) and the control terminal of the driving TFT (e.g., TFT 2).

As to claim 3, Komiya teaches wherein the bias switch (TFT3) includes a control terminal connected to the N-1th gate line (e.g., gate line 1);

a first input terminal connected to the N-1th compensation voltage supply line (e.g., the first top VEE); and

a second input terminal connected to the control terminal of the driving TFT that is connected to the Nth compensation voltage supply line (e.g., the second VEE between Discharge gate line 2 and gate line 2).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Komiya, in view of Morosawa (U.S Pub #2006/0139251).

As to claim 4, note the discussion claim 1 above, Komiya teaches plurality of compensation voltage supply lines. Komiya do not teaches a compensation voltage generator that generates a compensation voltage with a high state; and

a shift register that sequentially shifts the compensation voltage with a high state to supply the compensation voltage. Morosawa teaches a voltage generator (140) that generates a voltage with a high state (see [0130]); and

a shift register (131b) that sequentially shifts the compensation voltage with a high state (see [0130]).

Therefore, it would have been obvious to one of ordinary skill in the art at time the invention was made to have provided with a voltage generator that generates a compensation voltage with a high state; and a shift register that sequentially shifts the voltage with a high state to supply the voltage as taught by Morosawa to the compensation voltage lines of the organic el pixel circuit of Komiya because the shift register of Morosawa would reduce the amount of time required for generation of the drive current, thereby improving the display image quality (see [0012]).

As to claim 5, Morosawa teaches a high state (e.g., high voltage supply, see [0087]) from the shift register and a low state from the shift register (e.g., the clock from the shift register control the data line and each potential set as low potential state, see [0097], [0326]).

As to claim 6, Komiya teaches wherein the scan pulse is supplied to the N-1th gate line (e.g., gate line 2, see Fig. 5), the control terminal of the driving TFT (e.g., TFT4) is supplied with data (e.g., data line 1) via the switching TFT and the second input terminal is supplied with a compensation voltage (e.g., VEE from the N-1th compensation voltage supply line). Komiya does not teach a low state. Morosawa teaches low state (see [0097]). Thus combining of Komiya and Morosawa meets the claimed limitation.

As to claim 7, Komiya teaches wherein when the scan pulse is supplied to the N-1th gate line (e.g., gate line 1), the bias switch (e.g., TFT3) supplies a compensation voltage (e.g., VEE at the top) from the N-1th compensation voltage supply line to the control terminal of the driving TFT (TFT4 below from gate line 2) connected to the Nth compensation voltage supply line and a compensation voltage is supplied from the Nth (e.g., VEE below form gate line) compensation voltage supply line to the second input terminal of the driving TFT (see Fig. 5). Komiya does not teach low state and high state. Morosawa teaches low state and high state (see [0097] and [0087] respectively) containing of Komiya and Morosawa meet's the claimed limitation.

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. The Examiner uses the same art, but the mapping of the circuit to the claim is different as shown in the office action above.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL TSEGAYE whose telephone number is (571)270-1715. The examiner can normally be reached on Monday-Friday, 8:005:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr A Awad can be reached on 571 272 7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel Tsegaye
Mar 13, 2008

/Amr Awad/

Supervisory Patent Examiner, Art Unit 2629